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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
. 10/595,845	05/16/2006	Filippo Giancotti	MSK.P-076	7804	
52334 7590 01/30/2008 Marina Larson & Associates LLC re: MSK P. O. BOX 4928 DILLON, CO 80435-4928			EXAMINER		
			HADDAD, MAHER M		
			ART UNIT	PAPER NUMBER	
·			1644		
•			<u></u>		
	·		MAIL DATE	DELIVERY MODE	
			01/30/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No. Applicant(s)		
	10/595,845	GIANCOTTI, FILIPPO	
Office Action Summary	Examiner	Art Unit	
	Maher M. Haddad	1644	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of the state of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
 1) ⊠ Responsive to communication(s) filed on 16 Modern 2a) ☐ This action is FINAL. 2b) ☒ This 3) ☐ Since this application is in condition for alloward closed in accordance with the practice under Expression in the condition of the closed in accordance with the practice under Expression in the condition of the closed in accordance with the practice under Expression in the condition of the closed in accordance with the practice under Expression in the condition of the closed in accordance with the practice under Expression in the condition of the closed in accordance with the practice under Expression in the condition of the closed in accordance with the practice under Expression in the condition of the closed in accordance with the practice under Expression in the condition of the closed in accordance with the practice under Expression in the condition of the closed in accordance with the practice under Expression in the closed in accordance with the practice under Expression in the closed in accordance with the practice under Expression in the closed in the closed in the closed in the closed in accordance with the practice under Expression in the closed in the clos	action is non-final. nce except for formal matters, pro-		
Disposition of Claims	•		
 4) Claim(s) 1-10 and 15-20 is/are pending in the adaptive day of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-10 and 15-20 are subject to restriction. 	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of the declaration is objected to by the Examiner 11). The oath or declaration is objected to by the Examiner 11.	epted or b) objected to by the lidrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: See Continua	ate atent Application	

Continuation of Attachment(s) 6). Other: Notice of non-compliant (1.121).

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DETAILED ACTION

1. Claims 1-10 and 15-20 are pending.

Election/Restrictions

- 2. Restriction is required under 35 U.S.C. 121 and 372. This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.
- 3. In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.
 - I. Claims 5, 9, 15, 17 and 19, drawn to a method for inhibition of angiogenesis in a tissue expressing $\alpha6\beta4$ integrin, comprising the steps of exposing the tissue to a therapeutic agent effective to reduce the amount of active $\alpha6\beta4$ integrin in the tissue, wherein the therapeutic agent targets $\beta4$, wherein the therapeutic agent is an antibody.
 - II. Claims 6, 10, 16, 18 and 20, drawn to a method for inhibition of angiogenesis in a tissue expressing $\alpha 6\beta 4$ integrin, comprising the steps of exposing the tissue to a therapeutic agent effective to reduce the amount of active $\alpha 6\beta 4$ integrin in the tissue, wherein the therapeutic agent targets $\beta 4$, wherein the therapeutic agent is an RNAi species.

Claims 1-4 and 7-8, link inventions I and II. The restriction requirement among the linked inventions is subject to the nonallowance of the linking claims, claim 1-4 and 7-8. Upon the allowance of the linking claims, the restriction requirement as to the linked inventions shall be withdrawn and any claims depending from or otherwise including all the limitations of the allowable linking claims will be entitled to examination in the instant application. Applicants are advised that if any such claims depending from or including all the limitations of the allowable linking claims are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

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4. The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The invention of Group I was found to have no special technical feature that defined the contribution over the prior art of Enenstein and Kramer (J Invest Dermatol. 1994 Sep;103(3):381-6).

Enenstein and Kramer suggest an important role for the $\alpha6\beta4$ integrin in the initial stages of endothelial outmigration during new vessel growth (angiogenesis). Enenstein and Kramer teach that $\alpha6$ and $\beta4$ were consistently found along the whole length of capillary loops and extended to the distal ends of presumed sprouts (see abstract). Enenstein and Kramer also teach that if integrins function in cord formation *in vivo*, one would expect that a major component would be some non- $\beta1$ integrin, such as $\beta4$. (see DISCUSSION in particular). Enenstein and Kramer teach the use of mAb anti- $\beta4$ (3E1) (see page 382, under antibodies). It would have been obvious at the time the invention was made to block tube formation by anti- $\beta4$ antibodies as suggested by Enenstein and Kramer.

Since Applicant's inventions do not contribute a special technical feature when viewed over the prior art they do not have a single general inventive concept and so lack unity of invention.

- 5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maher Haddad whose telephone number is (571) 272-0845. The examiner can normally be reached Monday through Friday from 7:30 am to 4:00 pm. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen B. O'Hara can be reached on (571) 272-0878. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

January 24, 2008

Maher Haddad, Ph.D.
Primary Patent Examiner
Technology Center 1600

Notice of Non-Compliant Amendment (37 CFR 1.121)

TH

Application No.	Applicant(s)		
10/595,845	GIANCOTTI, FILIPPO		
Examiner	Art Unit		
Maher M. Haddad	1644		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

The amendment document filed on 16 May 2006 is considered non-compliant because it has failed to meet the requirements of 37 CFR 1.121 or 1.4. In order for the amendment document to be compliant, correction of the following item(s) is required.

E FOLLOWING MARKED (X) ITEM(S) CAUSE THE AMENDMENT DOCUMENT TO BE NON-COMPLIANT:
1. Amendments to the specification:
 A. Amended paragraph(s) do not include markings. B. New paragraph(s) should not be underlined.
C. Other
2. Abstract:
A. Not presented on a separate sheet. 37 CFR 1.72.
B. Other
3. Amendments to the drawings:
A. The drawings are not properly identified in the top margin as "Replacement Sheet," "New Sheet," or "Annotated Sheet" as required by 37 CFR 1.121(d).
B. The practice of submitting proposed drawing correction has been eliminated. Replacement drawings
showing amended figures, without markings, in compliance with 37 CFR 1.84 are required.
C. Other
A. A complete listing of all of the claims is not present.
B. The listing of claims does not include the text of all pending claims (including withdrawn claims)
C. Each claim has not been provided with the proper status identifier, and as such, the individual status
of each claim cannot be identified. Note: the status of every claim must be indicated after its claim
number by using one of the following status identifiers: (Original), (Currently amended), (Canceled),
(Previously presented), (New), (Not entered), (Withdrawn) and (Withdrawn-currently amended).
□ D. The claims of this amendment paper have not been presented in ascending numerical order.
E. Other: <u>See Continuation Sheet.</u>
5. Other (e.g., the amendment is unsigned or not signed in accordance with 37 CFR 1.4):
o. o. lo. to.g., the amendment is anoighed of her eighted in accordance that or or it in
further explanation of the amendment format required by 37 CFR 1.121, see MPEP § 714.

TIME PERIODS FOR FILING A REPLY TO THIS NOTICE:

- 1. Applicant is given no new time period if the non-compliant amendment is an after-final amendment or an amendment filed after allowance. If applicant wishes to resubmit the non-compliant after-final amendment with corrections, the entire corrected amendment must be resubmitted.
- 2. Applicant is given one month, or thirty (30) days, whichever is longer, from the mail date of this notice to supply the correction, if the non-compliant amendment is one of the following: a preliminary amendment, a non-final amendment (including a submission for a request for continued examination (RCE) under 37 CFR 1.114), a supplemental amendment filed within a suspension period under 37 CFR 1.103(a) or (c), and an amendment filed in response to a Quayle action. If any of above boxes 1. to 4. are checked, the correction required is only the corrected section of the non-compliant amendment in compliance with 37 CFR 1.121.

Extensions of time are available under 37 CFR 1.136(a) only if the non-compliant amendment is a non-final amendment or an amendment filed in response to a Quayle action.

Failure to timely respond to this notice will result in:

Abandonment of the application if the non-compliant amendment is a non-final amendment or an amendment filed in response to a Quayle action; or

Non-entry of the amendment if the non-compliant amendment is a preliminary amendment or supplemental amendment.

Legal Instruments Examiner (LIE), if applicable

Telephone No.

Continuation of 4(e) Other: The amendment is non-compliant because each claim has not been provided with the proper status identifier, and as such, the individual status of each claim cannot be identified. The status of claims 1 and 7 is not "original", but rather "currently amended" because the amendment filed 5/16/06 added the phrase "wherein the therapeutic agent targets \(\beta^4\)". Accordingly, the status identifier for these claims are "currently amended". Further, the amendment fails to underline the added phrase.